

Title (en)

SYNTHESIS OF TAXOL, ANALOGS AND INTERMEDIATES WITH VARIABLE A-RING SIDE CHAINS

Title (de)

SYNTHESE VON TAXOL, SEINEN ANALOGEN UND INTERMEDIATEN MIT VARIABLEN A-RING SEITENKETTEN

Title (fr)

SYNTHÈSE DE TAXOL, D'ANALOGUES ET D'INTERMÉDIAIRES DE TAXOL PRÉSENTANT DES CHAINES LATÉRALES DU CYCLE A VARIABLES

Publication

**EP 0682660 B1 20031105 (EN)**

Application

**EP 94907973 A 19940204**

Priority

- US 1509593 A 19930205
- US 9401293 W 19940204

Abstract (en)

[origin: EP1260507A1] An efficient protocol for the synthesis of taxol, taxol analogs, and their intermediates is described. The process includes the attachment of the taxol A-ring side chain to baccatin III and for the synthesis of taxol and taxol analogs with variable A-ring side chain structures. A rapid and highly efficient esterification of O-protected isoserine and 3-phenylisoserine acids having N-benzyloxycarbonyl groups to the C-13 hydroxyl of 7-O-protected baccatin III is followed by a deprotection-acylation sequence to make taxol, calphalomannine and various analogs, including photoaffinity labeling candidates.

IPC 1-7

**C07D 305/14**

IPC 8 full level

**C07C 271/06** (2006.01); **C07C 271/22** (2006.01); **C07D 305/14** (2006.01); **C07F 7/18** (2006.01)

CPC (source: EP US)

**C07C 271/22** (2013.01 - EP US); **C07D 305/14** (2013.01 - EP US); **C07F 7/1804** (2013.01 - EP US); **C07B 2200/07** (2013.01 - EP US); **Y02P 20/55** (2015.11 - EP US)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9418186 A1 19940818**; AT E253563 T1 20031115; AU 6133694 A 19940829; AU 695530 B2 19980813; BR 9405687 A 19951121; BR 9405687 C1 20010807; CA 2155304 A1 19940818; CA 2155304 C 20100720; CN 1102829 A 19950524; CN 1284501 A 20010221; DE 69433297 D1 20031211; DE 69433297 T2 20041021; EP 0682660 A1 19951122; EP 0682660 A4 19951220; EP 0682660 B1 20031105; EP 1260507 A1 20021127; IL 108581 A0 19940530; JP 3031715 B2 20000410; JP H08506587 A 19960716; NZ 262030 A 19971024; US 2002052517 A1 20020502; US 5770745 A 19980623; US 5939566 A 19990817; US 6072060 A 20000606; US 6262281 B1 20010717; US 6307088 B1 20011023; US 6509484 B2 20030121

DOCDB simple family (application)

**US 9401293 W 19940204**; AT 94907973 T 19940204; AU 6133694 A 19940204; BR 9405687 A 19940204; CA 2155304 A 19940204; CN 00103725 A 20000301; CN 94102253 A 19940205; DE 69433297 T 19940204; EP 02014256 A 19940204; EP 94907973 A 19940204; IL 10858194 A 19940207; JP 51824994 A 19940204; NZ 26203094 A 19940204; US 2074298 A 19980209; US 25332599 A 19990219; US 35750794 A 19941215; US 48308395 A 19950607; US 54732700 A 20000411; US 86388901 A 20010522